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Comparison of MetAP2 Homologues (mouse = SEQ ID NO:13; rat = SEQ ID NO:17;
human = SEQ ID NO:12; yeast = SEQ ID NO:14)

1	15	16	30	31	45	46	60	61	75	76	90
mouse	MAGVEQASFGHLN	GDLPDDREEGTST	AEEAKKKRRKKKKK	KGAVSAVQQLDKES	GALVDEVAKQLSQA	LEEKERDDDDDDG	90				
rat	MAGVEEASSFGHLN	RDLPDDREEGTST	AEEAKKKRRKKKKK	KGAVSAVQQLDKES	GTSVDEVAKQLERA	LEEKEKDDDDDDG	90				
human	MAGVEEVAASGHLN	GDLPDDREEGAST	AEEAKKKRRKKKKK	KGPSAGEQLPEKES	GASVDEVAKQLERA	LEDEKEDDEDDG	90				
yeast	-----	-----	-----	-----	-----	-----	38				
1	105	106	120	121	135	136	150	151	165	166	180
mouse	DADGATGKKKKKKK	KRGPKVQTDPPSVPI	CDLYPNGVFPPKQEC	EYPTQDGRTAAMRT	TSEKKALDQASEEI	WDFREAAEAHRQVR	180				
rat	DGDGAAGKKKKKKK	KRGPRVQTDPPSVPI	CDLYPNGVFPPKQEC	EYPTQDGRTAAMRT	TSEKKALDQASEEI	WDFREAAEAHRQVR	180				
human	DGDGATGKKKKKKK	KRGPKVQTDPPSVPI	CDLYPNGVFPPKQEC	EYPTQDGRTAAMRT	TSEKKALDQASEEI	WDFREAAEAHRQVR	180				
yeast	ESKSKKKKKKKKKK	N-----	-VKKI	ELLPDGKYPGAMM	DYHQDFNLQRTIDEE	SRYLKRDLERA--EH	WMDVRKGAETIHRVR	116			
181	195	196	210	211	225	226	240	241	255	256	270
mouse	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----	LA	FPTGCSLNCAHAHT	PNAGDTTVLYQYDDIC	KIDFGTHISGRIIDC	263			
rat	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----	LA	FPTGCSLNCAHAHT	PNAGDTTVLYQYDDIC	KIDFGTHISGRIIDC	263			
human	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----	LA	FPTGCSLNCAHAHT	PNAGDTTVLYQYDDIC	KIDFGTHISGRIIDC	263			
yeast	RAIKDRIVPGMKLMD	IADMIENTTRKYTGA	ENLLAMEDPSQSIG	FPTGLSLNHCAHAFT	PNAGDKTVLKIEDVM	KVDYGVQVNGNIIDS	206				
271	285	286	300	301	315	316	330	331	345	346	360
mouse	AFTVTENPKYDILLT	AVKDATNTGICACAGI	DVRLCDVGEAIOEVM	ESYEVEIDGKTYQVK	PIRLNNGHSIGPYRI	HAGKTVPIVKGGEAT	353				
rat	AFTVTENPKYDILLK	AVKDATNTGICACAGI	DVRLCDVGEAIOEVM	ESYEVEIDGKTYQVK	PIRLNNGHSIGPYRI	HAGKTVPIVKGGEAT	353				
human	AFTVTENPKYDILLK	AVKDATNTGICACAGI	DVRLCDVGEAIOEVM	ESYEVEIDGKTYQVK	PIRLNNGHSIGPYRI	HAGKTVPIVKGGEAT	353				
yeast	AFTVSFDPOYDNLILA	AVKDATYTGIEKEAGI	DVRLTDIGEAIOEVM	ESYEVEIDGKTYQVK	PCRNLCGHSIAFYRI	HGKSVPIVKNGDTT	296				
361	375	376	390	391	405	406	420	421	435	436	450
mouse	RMEEGEVAIETFGS	TGKGVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLNVINENFGTL	AFCRWLDRLGESKY	LMALKNLCDLGIVDP	443				
rat	RMEEGEVAIETFGS	TGKGVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLNVINENFGTL	AFCRWLDRLGESKY	LMALKNLCDLGIVDP	443				
human	RMEEGEVAIETFGS	TGKGVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLNVINENFGTL	AFCRWLDRLGESKY	LMALKNLCDLGIVDP	443				
yeast	KMEEGEHAETFGS	TGRGYVTAGGEVSHY	ARSAEDHQVMPITLDS	AKNLKTIIDRNFCTL	PFCRRYIDRLGQEKY	LFALNNLVRHGLVQD	386				
451	465	466	480								
mouse	YPPPLCDIKGSYTAQF	EHTILLRPTCKEVVS	RGDDY--	478							
rat	YPPPLCDIKGSYTAQF	EHTILLRPTCKEVVS	EEMTIKT	480							
human	YPPPLCDIKGSYTAQF	EHTILLRPTCKEVVS	RGDDY--	478							
yeast	YPPPLNDIPGSYTAQF	EHTILLHAHKEVVS	KGDDY--	421							

Figure 1

Title: Dominant Negative Variants of Methionine
Aminopeptidase 2
Inventor(s): Chang et al.
Appl. No. 10/712,359
Docket # 66153/45004



MetAP2

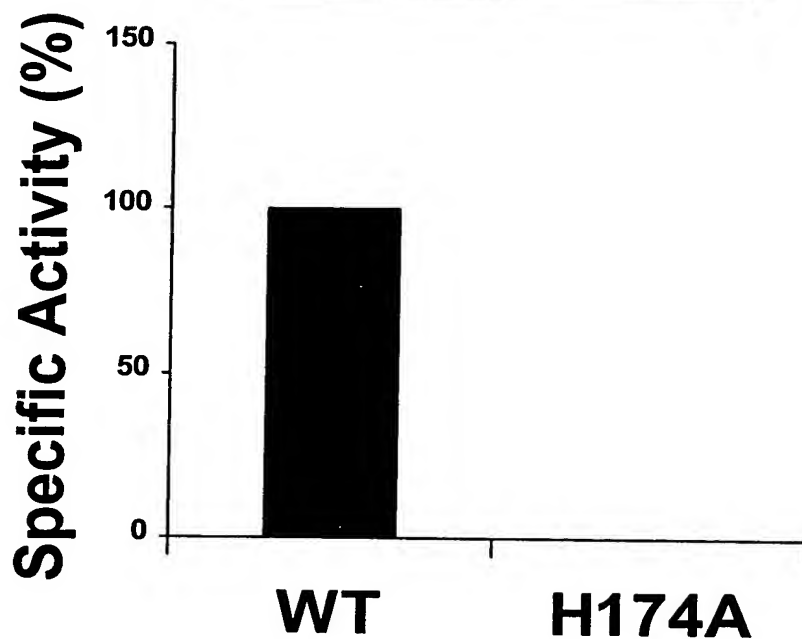
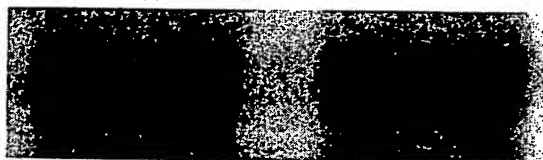
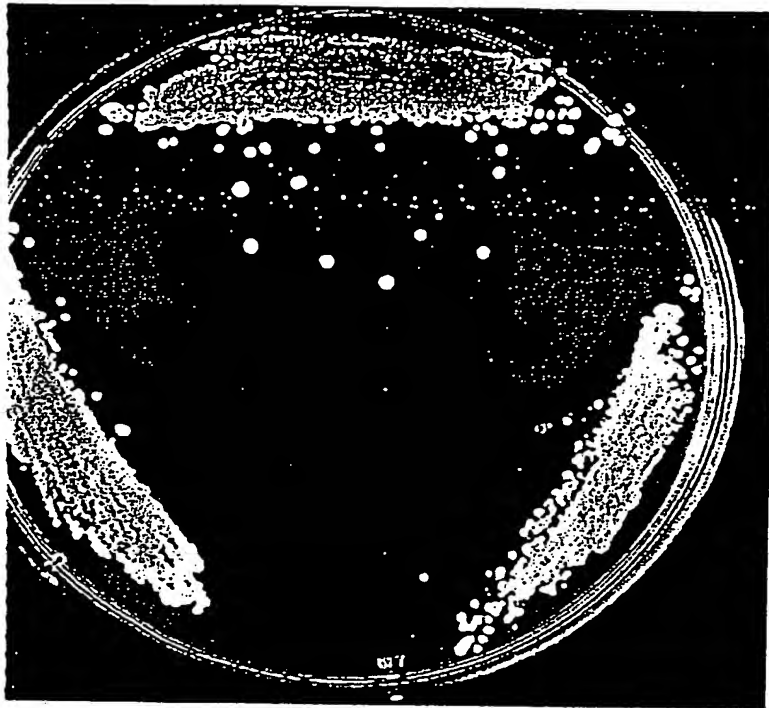
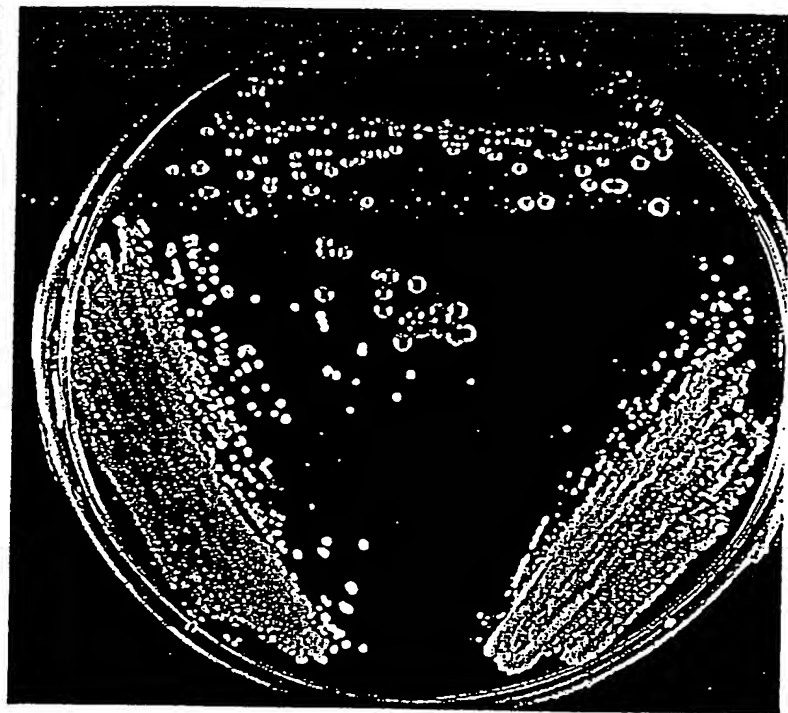


Figure 2

Title: Dominant Negative Variants of Methionine
Aminopeptidase 2
Inventor(s): Chang et al.
Appl. No. 10/712,359
Docket # 66153/45004



A. Glucose



B. Galactose

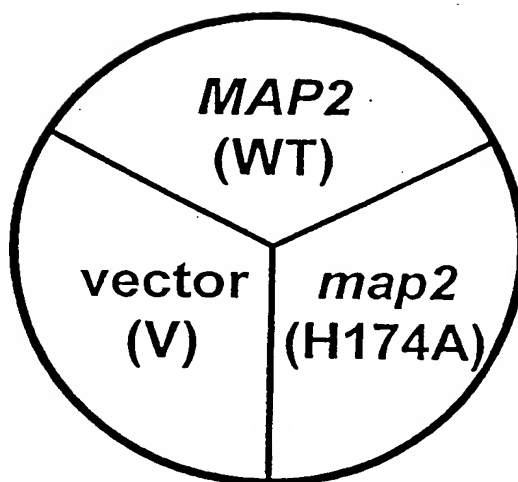


FIGURE 3

Title:	Dominant Negative Variants of Methionine Aminopeptidase 2
Inventor(s):	Chang et al.
Appln. No.	10/712,359
Docket #	66153/45004

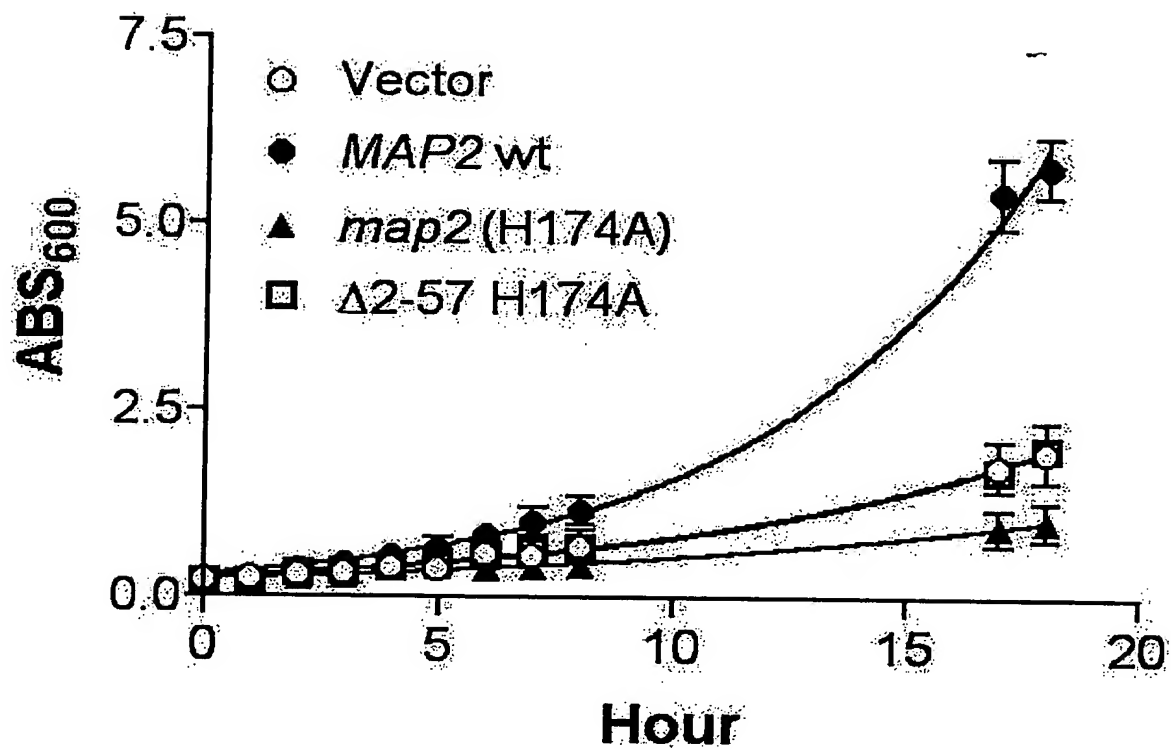
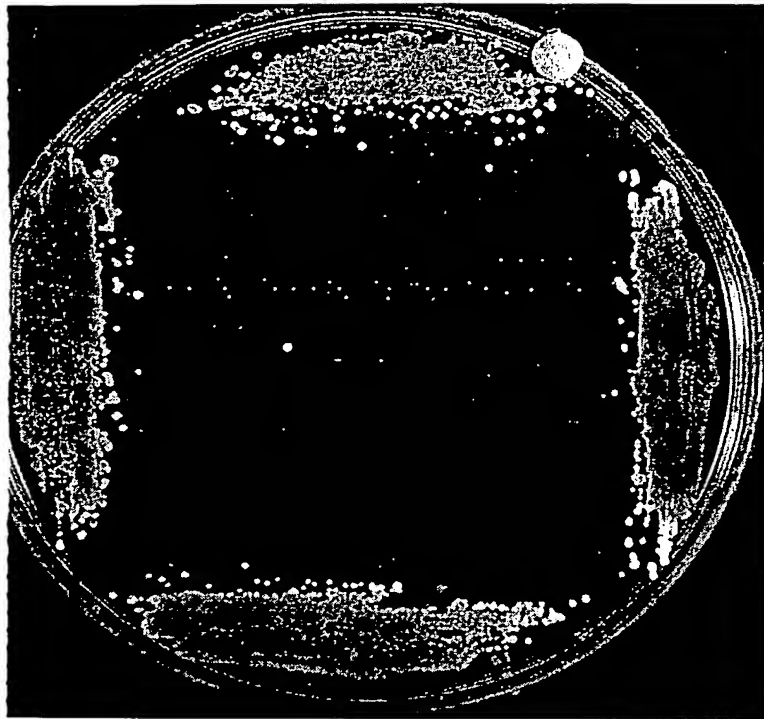
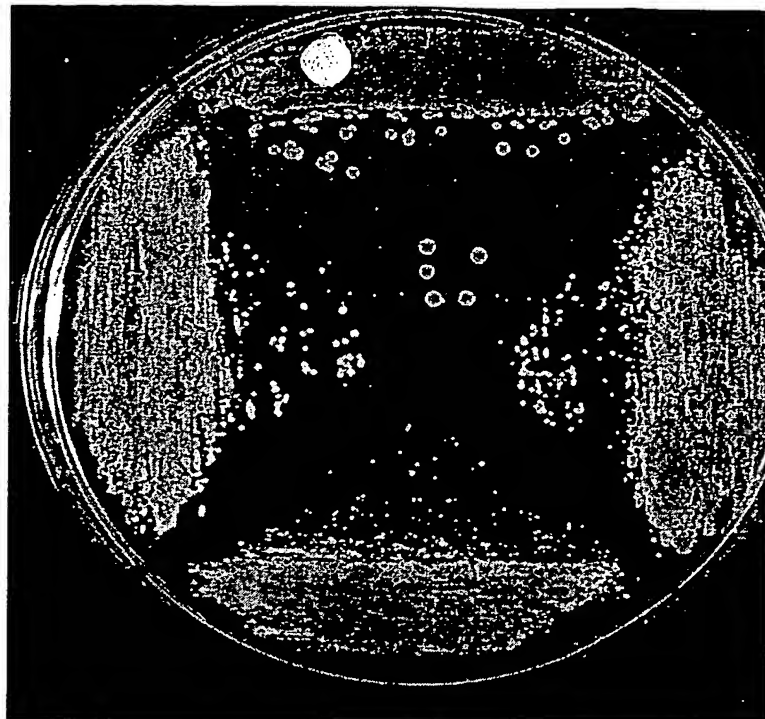


Figure 4

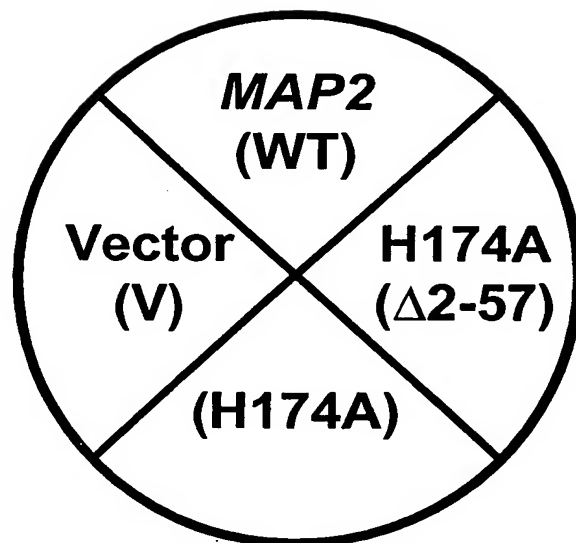
Title:	Dominant Negative Variants of Methionine Aminopeptidase 2
Inventor(s):	Chang et al.
Appln. No.	10/712,359
Docket #	66153/45004



A. Glucose



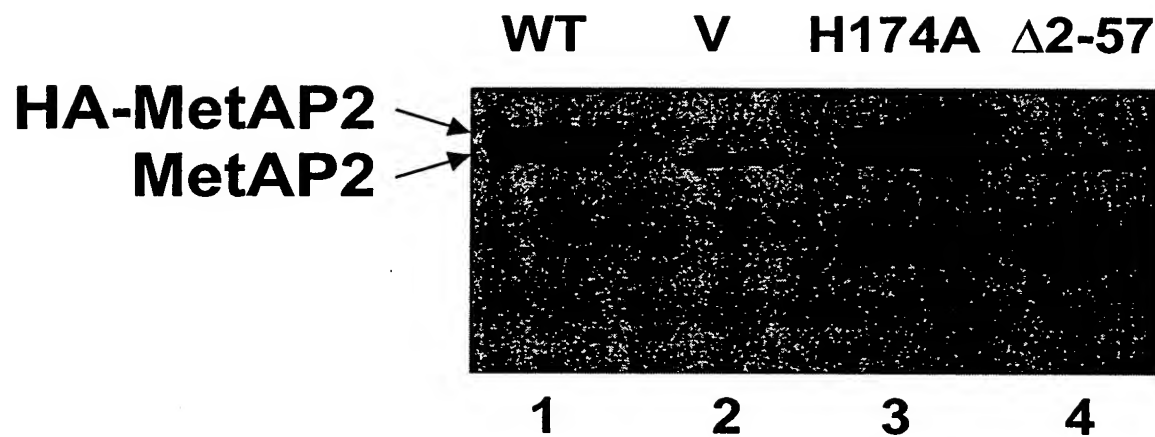
B. Galactose



H174A-MetAP2 requires N-terminal residues 2-57 for inhibition of *map1Δ* growth under the *GAL1* promoter.

Figure 5

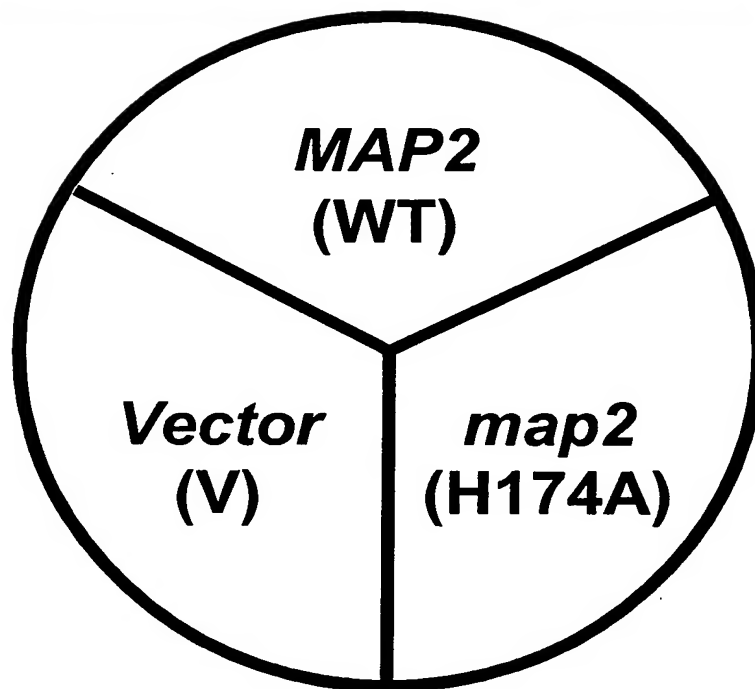
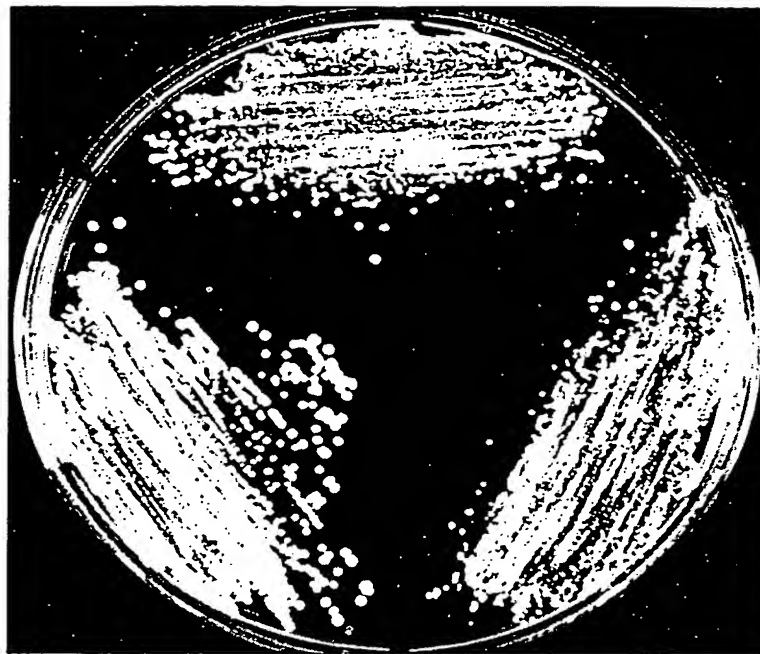
Title:	Dominant Negative Variants of Methionine Aminopeptidase 2
Inventor(s):	Chang et al.
Appln. No.	10/712,359
Docket #	66153/45004



The steady state levels of each MetAP2 construct are comparable. Immunoblot comparison of HA-MetAP2 wt, HA-MetAP2 H174A, and MetAP2 Δ2-57 H174A steady state levels in map1Δ.

Figure 6

Title:	Domninant Negative Variants of Methionine
	Aminopeptadase 2
Inventor(s):	Chang et al.
Appln. No.	10/712,359
Docket #	66153/45004



Overexpression of H174A-MetAP2 under the GPD promoter does not inhibit the growth of *map2Δ*

Figure 7

Title:	Dominant Negative Variants of Methionine Aminopeptidase 2
Inventor(s):	Chang et al.
Appl. No.	10/712,359
Docket #	66153/45004

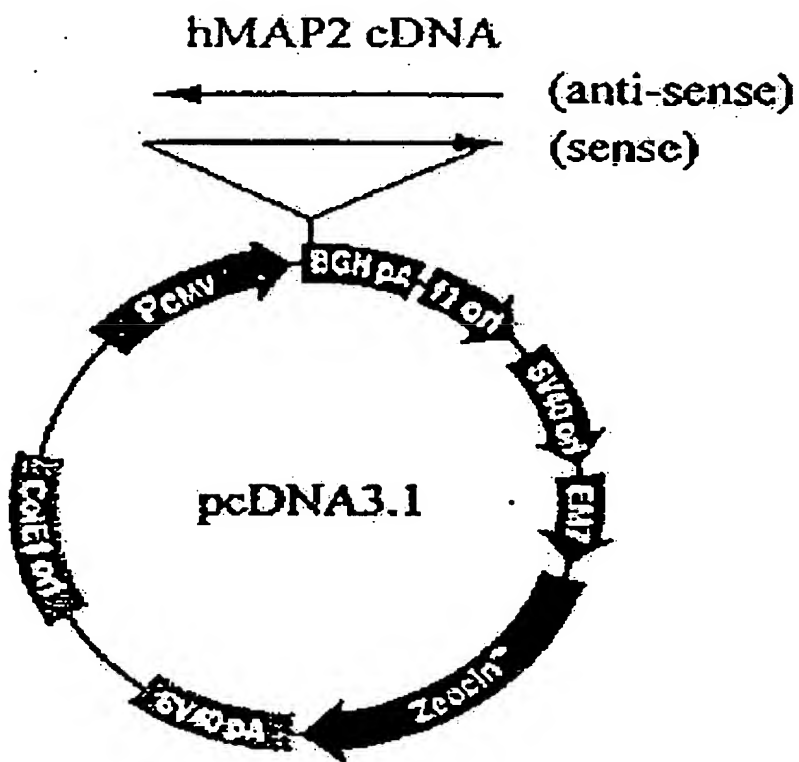


Figure 8

Title:	Dominant Negative Variants of Methionine Aminopeptidase 2
Inventor(s):	Chang et al.
Appln. No.	10/712,359
Docket #	66153/45004

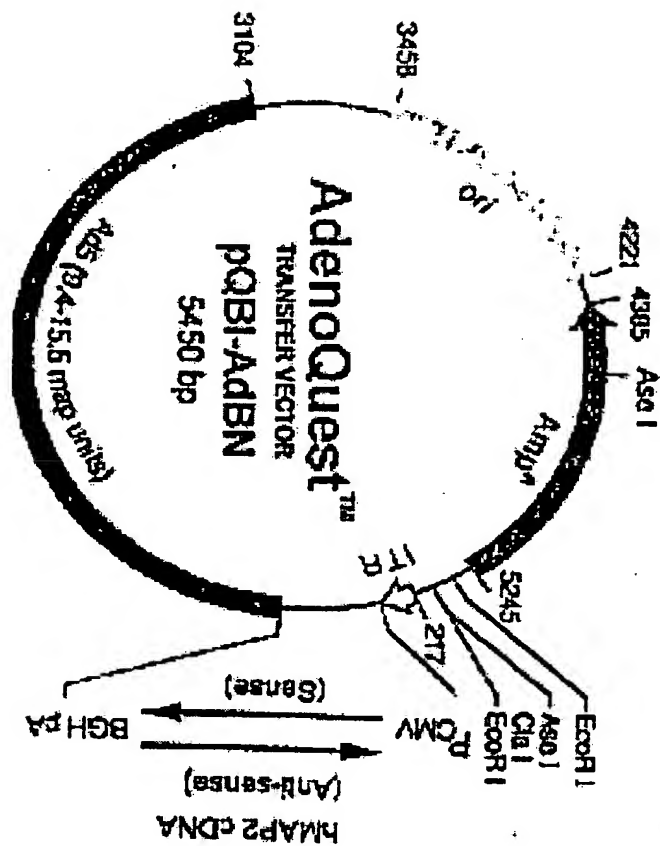


Figure 9

Title: Dominant Negative Variants of Methionine Aminopeptidase 2

Inventor(s): Chang et al.

Appln. No. 10/712,359

Docket # 66153/45004

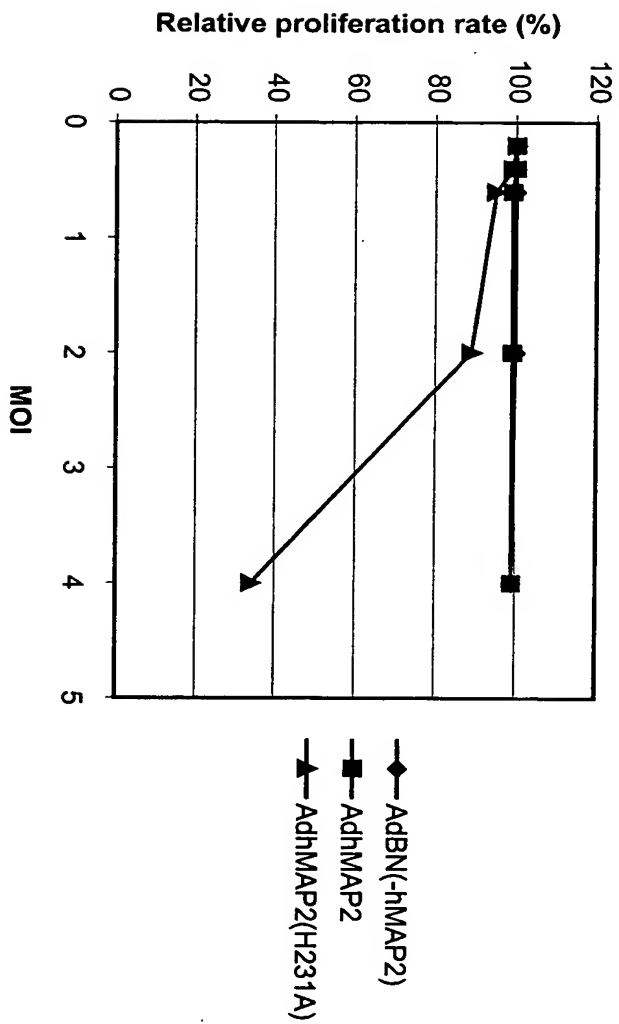
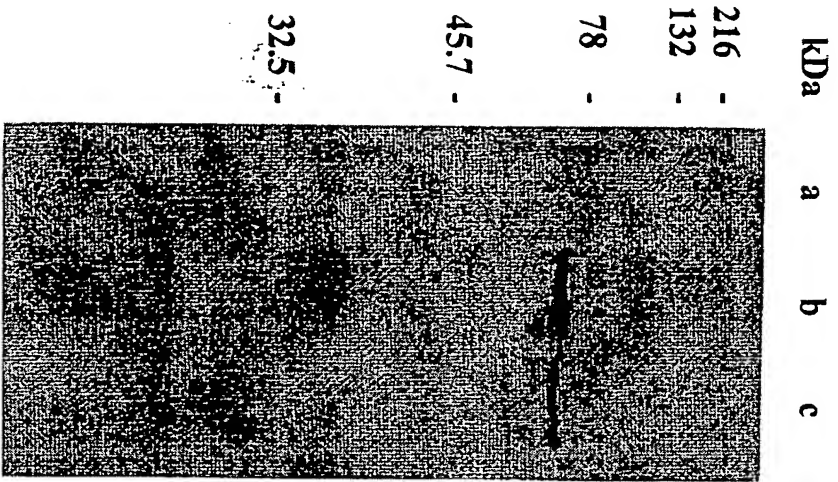


Figure 10

A



B

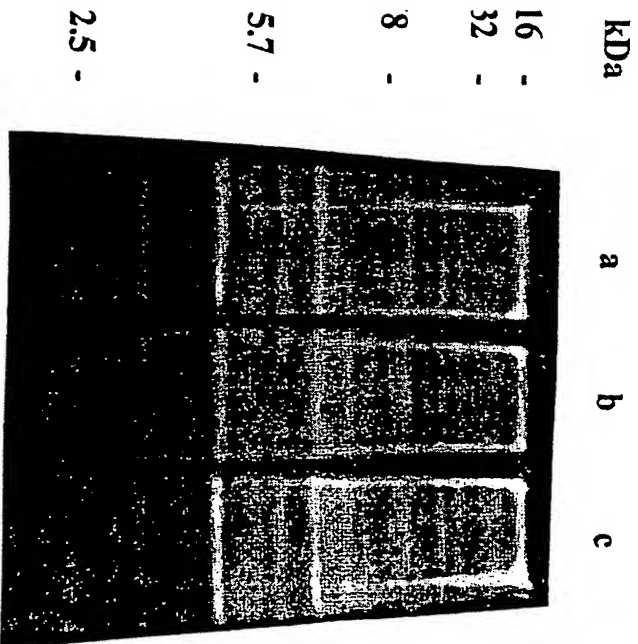


Figure 11

Title: Dominant Negative Variants of Methionine
Aminopeptidase 2
Inventor(s): Chang et al.
Appln. No. 10/712,359
Docket # 66153/45004